

# VACUUM PUMPS / Mega pump

## ML200

### Features and Strengths

- High vacuum flow to replace motor pump
- Easy maintenance
- Excellent performance in leakage application and in conveying system for granules, transferring bulk materials and powder



### Specifications

Description	ML200
Max. Vacuum level	-92 kPa
Open Vacuum flow	2410 NI/min
Max. Feed pressure	7 bar
Temperature	-20 ~ 80 °C
Noise level	68 ~ 76 dBA
Weight	4,800 g

### Vacuum Flow

Model	Max. vacuum (-kPa)	Feed Pressure (bar)	Vacuum flow (NI/min) at different vacuum levels (-kPa)									
			0	10	20	30	40	50	60	70	80	90
ML200	92	6.0	2410	1688	1116	580	290	216	144	80	40	6.4

### Evacuation Time

Model	Feed Pressure (bar)	Air Consumption (NI/min)	Evacuation time in sec / liter to reach different vacuum levels (-kPa)								
			10	20	30	40	50	60	70	80	90
ML200	6.0	600 ~ 780	0.0021	0.0055	0.0124	0.029	0.054	0.09	0.153	0.274	0.67

## ML400

### Features and Strengths

- High vacuum flow to replace motor pump
- Easy maintenance
- Excellent performance in leakage application and in conveying system for granules, transferring bulk materials and powder



### Specifications

Description	ML400
Max. Vacuum level	-92 kPa
Open Vacuum flow	4820 NI/min
Max. Feed pressure	7 bar
Temperature	-20 ~ 80 °C
Noise level	68 ~ 76 dBA
Weight	4,800 g

### Vacuum Flow

Model	Max. vacuum (-kPa)	Feed Pressure (bar)	Vacuum flow (NI/min) at different vacuum levels (-kPa)									
			0	10	20	30	40	50	60	70	80	90
ML400	92	6.0	4820	3376	2232	1160	580	432	288	160	80	12.8

### Evacuation Time

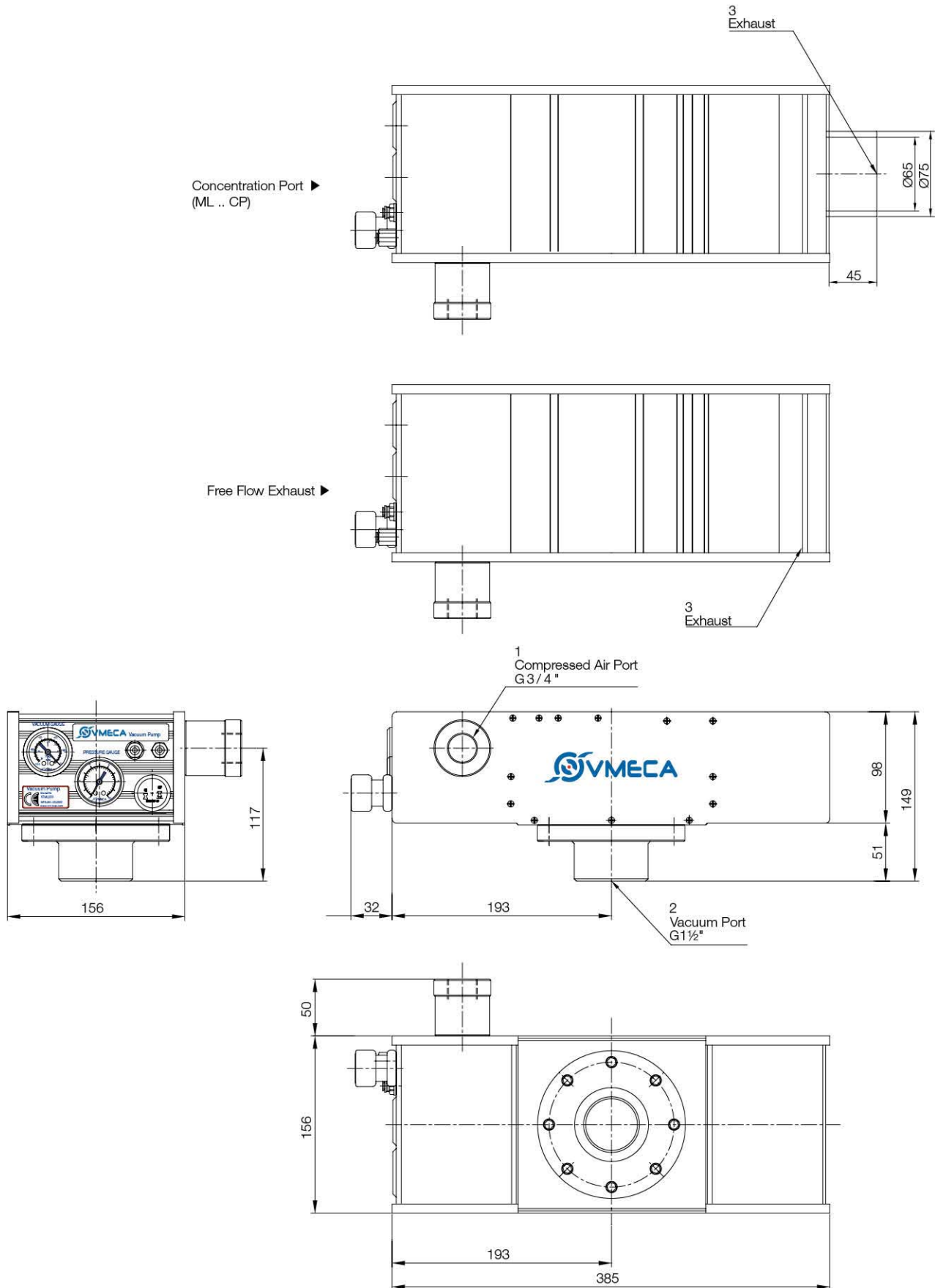
Model	Feed Pressure (bar)	Air Consumption (NI/min)	Evacuation time in sec / liter to reach different vacuum levels (-kPa)								
			10	20	30	40	50	60	70	80	90
ML400	6.0	1200 ~ 1680	0.0011	0.0027	0.0062	0.014	0.027	0.045	0.076	0.137	0.335

# VACUUM PUMPS / Mega pump

## I Dimension – Basic Pump

[ Unit : mm ]

ML200 & 400



## ML600

### Features and Strengths

- High vacuum flow to replace motor pump
- Easy maintenance
- Excellent performance in leakage application and in conveying system for granules, transferring bulk materials and powder



### Specifications

Description	ML600
Max. Vacuum level	-92 kPa
Open Vacuum flow	7230 NI/min
Max. Feed pressure	7 bar
Temperature	-20 ~ 80 °C
Noise level	68 ~ 76 dBA
Weight	5,920 g

### Vacuum Flow

Model	Max. vacuum (-kPa)	Feed Pressure (bar)	Vacuum flow (NI/min) at different vacuum levels (-kPa)									
			0	10	20	30	40	50	60	70	80	90
ML600	92	6.0	7230	5064	3348	1740	870	648	432	240	120	19.2

### Evacuation Time

Model	Feed Pressure (bar)	Air Consumption (NI/min)	Evacuation time in sec / liter to reach different vacuum levels (-kPa)								
			10	20	30	40	50	60	70	80	90
ML600	6.0	1800 ~ 2520	0.0009	0.0021	0.0047	0.011	0.021	0.034	0.057	0.103	0.252

# VACUUM PUMPS / Mega pump

## ML800

### Features and Strengths

- High vacuum flow to replace motor pump
- Easy maintenance
- Excellent performance in leakage application and in conveying system for granules, transferring bulk materials and powder



### Specifications

Description	ML800
Max. Vacuum level	-92 kPa
Open Vacuum flow	9640 NI/min
Max. Feed pressure	7 bar
Temperature	-20 ~ 80 °C
Noise level	68 ~ 76 dBA
Weight	6,080 g

### Vacuum Flow

Model	Max. vacuum (-kPa)	Feed Pressure (bar)	Vacuum flow (NI/min) at different vacuum levels (-kPa)									
			0	10	20	30	40	50	60	70	80	90
ML800	92	6.0	9640	6752	4464	2320	1160	864	576	320	160	25.6

### Evacuation Time

Model	Feed Pressure (bar)	Air Consumption (NI/min)	Evacuation time in sec / liter to reach different vacuum levels (-kPa)									
			10	20	30	40	50	60	70	80	90	
ML800	6.0	2400 ~ 3360	0.0006	0.0014	0.0031	0.007	0.014	0.023	0.038	0.068	0.168	

## ML1000

### Features and Strengths

- High vacuum flow to replace motor pump
- Easy maintenance
- Excellent performance in leakage application and in conveying system for granules, transferring bulk materials and powder



### Specifications

Description	ML1000
Max. Vacuum level	-92 kPa
Open Vacuum flow	12050 NI/min
Max. Feed pressure	7 bar
Temperature	-20 ~ 80 °C
Noise level	68 ~ 76 dBA
Weight	7,700 g

### Vacuum Flow

Model	Max. vacuum (-kPa)	Feed Pressure (bar)	Vacuum flow (NI/min) at different vacuum levels (-kPa)									
			0	10	20	30	40	50	60	70	80	90
ML1000	92	6.0	12050	8440	5580	2900	1450	1080	720	400	200	32

### Evacuation Time

Model	Feed Pressure (bar)	Air Consumption (NI/min)	Evacuation time in sec / liter to reach different vacuum levels (-kPa)								
			10	20	30	40	50	60	70	80	90
ML1000	6.0	3000 ~ 4140	0.0005	0.0012	0.0026	0.006	0.012	0.018	0.031	0.057	0.147

# VACUUM PUMPS / Mega pump

## ML1200

### Features and Strengths

- High vacuum flow to replace motor pump
- Easy maintenance
- Excellent performance in leakage application and in conveying system for granules, transferring bulk materials and powder



### Specifications

Description	ML1200
Max. Vacuum level	-92 kPa
Open Vacuum flow	14460 NI/min
Max. Feed pressure	7 bar
Temperature	-20 ~ 80 °C
Noise level	68 ~ 76 dBA
Weight	10,200 g

### Vacuum Flow

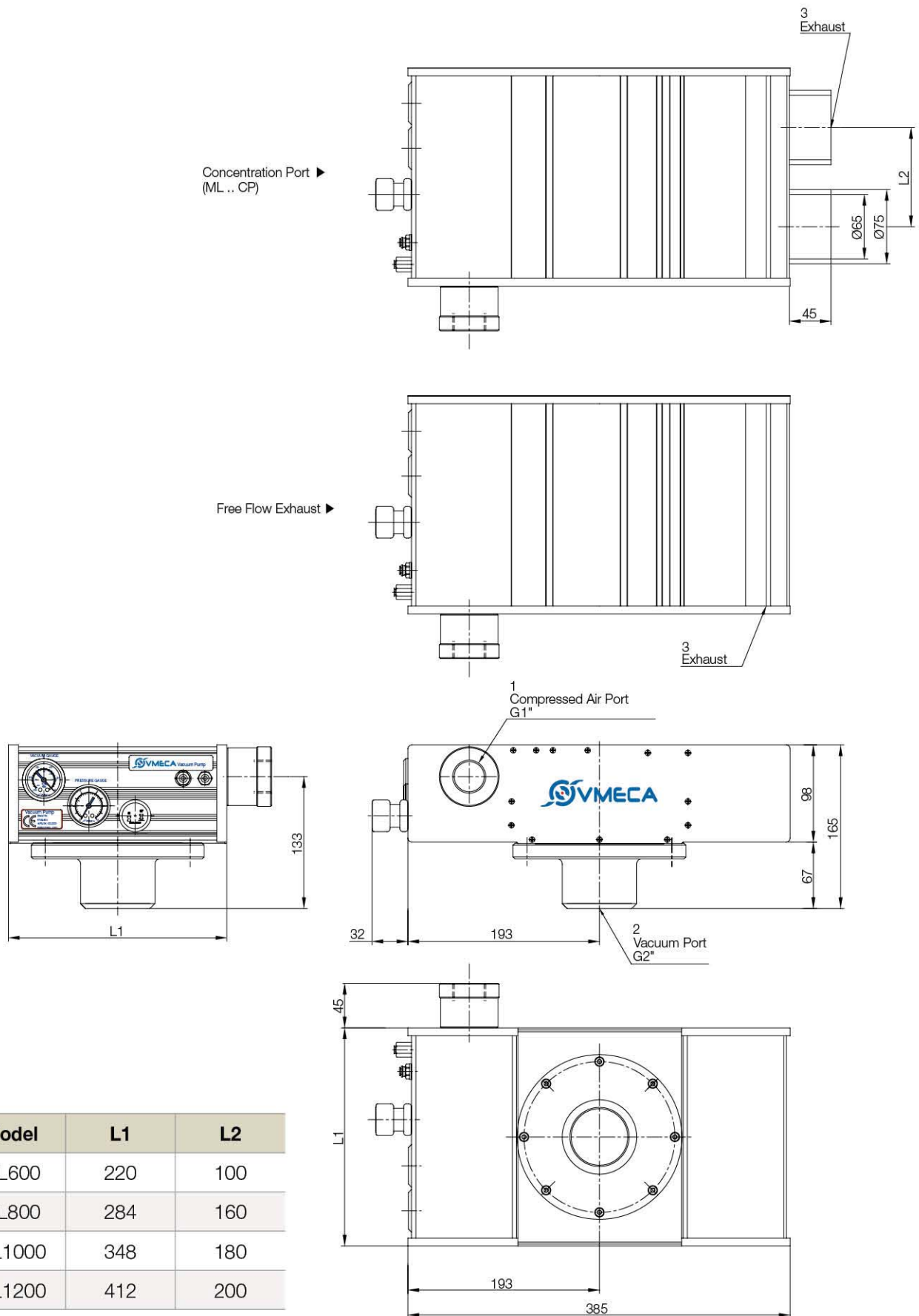
Model	Max. vacuum (-kPa)	Feed Pressure (bar)	Vacuum flow (NI/min) at different vacuum levels (-kPa)									
			0	10	20	30	40	50	60	70	80	90
ML1200	92	6.0	14460	10128	6696	3480	1740	1296	864	480	240	38.4

### Evacuation Time

Model	Feed Pressure (bar)	Air Consumption (NI/min)	Evacuation time in sec / liter to reach different vacuum levels (-kPa)									
			10	20	30	40	50	60	70	80	90	
ML1200	6.0	3600 ~ 4920	0.0004	0.0009	0.0021	0.005	0.009	0.014	0.024	0.045	0.125	

## Dimension – Basic Pump

[ Unit : mm ]

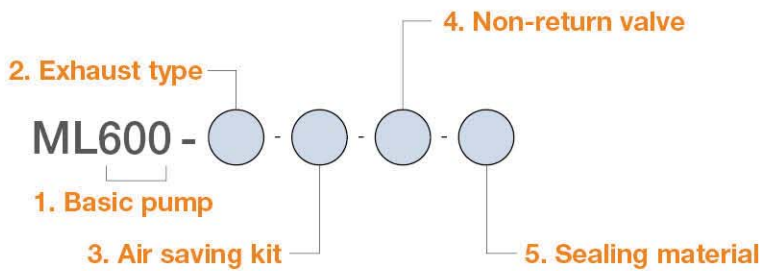


Model	L1	L2
ML600	220	100
ML800	284	160
ML1000	348	180
ML1200	412	200



# VACUUM PUMPS / Mega pump

## I Build an Ordering No.



1. Basic pump	Description	Symbol
	Mega Pump - 200 Series, G1-1/2" vacuum port, G3/4" air supply port	ML200
	Mega Pump - 400 Series, G1-1/2" vacuum port, G3/4" air supply port	ML400
	Mega Pump - 600 Series, G2" vacuum port, G3/4" air supply port	ML600
	Mega Pump - 800 Series, G2" vacuum port, G3/4" air supply port	ML800
	Mega Pump - 1000 Series, G2" vacuum port, G3/4" air supply port	ML1000
	Mega Pump - 1200 Series, G2" vacuum port, G3/4" air supply port	ML1200
2. Exhaust type	Description	Symbol
	Free flow exhaust duct	Blank
	Concentration port	CP
3. Air saving kit	Description	Symbol
	No air saving kit	Blank
	Air saving kit without air control valve	AS
4. Non-return valve	Description	Symbol
	No non-return valve	Blank
	Non-return valve: No need with Air saving kit	N
5. Sealing material	Description	Symbol
	NBR	Blank
	VITON	V
	EPDM	E

## I Spare Parts – Basic pumps

Part No.	Description	Weight (g)
ML200	Mega Pump - 200 Series, G1-1/2" vacuum port, G3/4" air supply port	4,800
ML400	Mega Pump - 400 Series, G1-1/2" vacuum port, G3/4" air supply port	4,880
ML600	Mega Pump - 600 Series, G2" vacuum port, G3/4" air supply port	5,920
ML800	Mega Pump - 800 Series, G2" vacuum port, G3/4" air supply port	6,080
ML1000	Mega Pump - 1000 Series, G2" vacuum port, G3/4" air supply port	7,700
ML1200	Mega Pump - 1200 Series, G2" vacuum port, G3/4" air supply port	10,200